

205.2 - Fission Track Glass (wafer form)

This SRM, which contains uranium, will aid laboratories performing fission track analyses in interlaboratory comparisons of data and in monitoring neutron fluences. The material was irradiated in the 20MW reactor at the NIST Center for Neutron Research, at two different neutron energies. Each unit consists of four unirradiated glass wafers and two irradiated wafers.

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PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Neutron Fluence							
SRM	Description	Unit of Issue	Uranium Composition (in mg/kg)	Uranium-235 (in Atom %)	Reactor Position	Neutron Fluence Copper Foil	Neutron Fluence Gold Foil
963a	Fission Track Glass U-1 mg/g	set (6)	0.823	0.2792	RT-4: (10 ¹⁴ n/cm ²)	39.5	43.0
					RT-3: (10 ¹⁴ n/cm ²)	41.2	45.8

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